Contents

Volume 12

First ISOLDE-81 Special Issue on Locational Decisions

1 Obituary
Jonathan Halpern (1940–1981)
J. Krarup and P.M. Pruzan

3 Invited Review
Survival analysis
D. Oakes

15 Editorial
S.K. Jacobsen and O.B.G. Madsen

19 Extensions to a Lagrangean relaxation approach for the capacitated warehouse location problem
N. Christofides and J.E. Beasley

29 On locating new facilities in a competitive environment
S.L. Hakimi

36 The simple plant location problem: Survey and synthesis
J. Krarup and P.M. Pruzan

82 Hamiltonian location problems
G. Laporte, Y. Nobert and P. Pelletier

90 Linear facility location – Solving extensions of the basic problem
J.G. Morris and J.P. Norback

95 The design of multiactivity multifacility systems
R.M. Soland

105 An approximate procedure for determining the number, capacities and locations of solid waste transfer-stations in an urban region
S.C. Wirasinghe and N.M. Waters

112 Book Reviews

116 Euro Bulletin

119 Invited Review
Cargo ships routing and scheduling: Survey of models and problems
D. Ronen

127 Case Study
Planning production in a bottleneck department
L.N. Van Wassenhove and P. Vanderhenst

138 A perspective of planning literature
T. Matsuda and M. Hirano

146 Effectiveness in strategic planning revisited
R.G. Dyson and M.J. Foster

159 Multiobjective strategies in power systems planning
I. Kavrakoğlu and G. Kiziltan

171 A note on optimal maintenance policies for deciding whether to repair or replace
L.S. Hayre

176 Analysis of a system with minimal repair and its application to replacement policy
T. Nakagawa and M. Kowada

183 Age replacement in the presence of inventory constraints
A. Mehrez and A. Stulman

190 Computational procedures for steady-state characteristics of unscheduled multi-carrier shuttle systems
S.H. Sim and J.G.C. Templeton

203 Short Communications
Closed-form equilibrium results for the $M/M_{\alpha,\infty}/N$ queue
G.P. Cosmetatos
The moments of the forward recurrence times of an alternating renewal process
L.A. Baxter

208 Book Reviews
214 EURO Bulletin

Second ISOLDE-81 Special Issue on Locational Decisions

217 Editorial
S.K. Jacobsen and O.B.G. Madsen
220 Invited Review
Locational analysis
R.L. Francis, L.F. McGinnis and J.A. White
253 Heuristics for the capacitated plant location model
S.K. Jacobsen
262 Hull properties in location problems
H. Juel and R.F. Love
266 Solving covering problems and the uncapacitated plant location problem on trees
A. Kolen
279 Transportation systems and residential location
L. Lundqvist and L.-G. Mattsson
295 Methods for solving combined two level location-routing problems of realistic dimensions
O.B.G. Madsen
302 A mixed integer and multiple objective programming model to analyze coal handling in New England
J.P. Osleeb and S.J. Ratick

314 Book Reviews
323 EURO Bulletin
325 Invited Review
Fractional programming
S. Schaible and T. Ibaraki
339 A Simulation study of some simplification strategies in the development of product-mix models
G. Knolmayer
348 Stochastic diffusion models with advertising and word-of-mouth effects
C.S. Tapiero
357 An approach to the modeling and analysis of multiobjective generalized networks
J.P. Ignizio
362 Solving zero-one multiple objective programs through implicit enumeration
R.F. Deckro and E.P. Winkofsky
375 A new algorithm for finding the shortest path between a specified pair of nodes in a graph of nonnegative arcs
S. Jeyaratnam
379 An algorithm for single machine sequencing with deadlines to minimize total weighted completion time
C.N. Potts and L.N. Van Wassenhove
388 Solving symmetric vehicle routing problems asymmetrically
P.H. Van Leeuwen and A. Volgenant
394 The symmetric traveling salesman problem and edge exchanges in minimal 1-trees
A. Volgenant and R. Jonker
404 Short Communication
A note on Galvão's "A graph theoretical bound for the *p*-median problem"
L. Morgenstern
406 Book Reviews
413 EURO Bulletin
415 Contents Volume 12